CLASSIFIC...ION

CENTRAL INTELLIGENCE AGENCY

INFORMATION FROM
FOREIGN DOCUMENTS OR RADIO BROADCASTS CD NO.

50X1-HUM

COUNTRY

USSR

DATE OF

INFORMATION

REPORT

SUBJECT

Economic - River transport

1949

HOW

DATE

PUBLISHED

Daily newspapers

DATE DIST. 29 Apr 1949

WHERE

USSK

NO. OF PAGES

PUBLISHED

22 Feb-24 Mar 1949

SUPPLEMENT TO

PUBLISHED LANGUAGE

Russiar.

REPORT NO.

THIS SOCURERY COSTAINS INFORMATION AFFECTING THE GATIONAL SEPENSE OF THE UNITED STATES WITHIN THE SEASING OF A PHOUSES ACT 38 S. G. C. IS ARD S. A. SEASINGS. IT? FRANCES COSTAINS SEED OF THE SERVICE OF THE SERVICE SEPENSE SEPENSE

THIS IS UNEVALUATED INFORMATION

SOURCE

Soviet newspapers as indicated.

## NAVIGATION BEGINS ON MANY RIVERS; NEW IMPROVEMENTS IN RIVER BOATS

EMAYYGI RIVER NAVIGATION OPENS -- Sovetskaya Estoniya, No 67, 22 Mar 49

On 21 March 1949 navigation began on the Emayygi River. The Diesel ship Shipovka will serve the Tartu-Khaaslava-Luunyya-Myaksa-Kavastu-Kastra Line, and the steamer Kingisepp will soon be put into service on the Tartu-Praaga Line.

NAVIGATION BEGINS ON YUZENYY BUG -- Pravda Ukrainy, Ho 67, 22 Mar 49

Navigation began on the Yuzhnyy Bug River on 21 March 1949. The first runs of the season were made by the motor cutter BT-51 and the steambhip Frunze, out of Etholayev.

MOSCOW-MOLOTOV LINE TO OPEN -- Prayda Ukrainy, No 67, 22 Mar 49

Preparations are under way for the opening of the Moscow-Molotov passanger steamer line, which has a run of 2,315 kilometers. Nine comfortable Kama and Volga steamers will be used. The round trip by water takes 17 days.

ILI RIVER INE BREAKS -- Kazakhstanskaya Pravda, No 51, 13 Mar 49

It was reported 13 March 1949 that the ice on the Ili River had begun to break.

ICE BREAKS ON DNEPR -- Krasnyy Flot, No 69, 24 Mar 49

A TASS dispatch, dated 23 March 1949, reported that ice on the Dnepr had begun to break in the Kiev area.

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MAN GAYLION TO BEGIN ON MOSCOW CANAL -- Pravda, No 79, 20 Mar 49

The Canal imeni Moskva between the Moskva and the Volga rivers is free of ice, and preparations for navigation are almost completed. The Diesel ship losef Stalin is ready for operation. Ten new Diesel passenger ships will operate out of Moscow, and the Kalinin Ship-Repair Works will put out ten new passinger cutters. A number of barges will be added to the freight fleet. New lading and unloading machinery has been installed in the northern and western ports of Moscow. New passenger lines between Moscow and Yaroslavi, Moscow and Moscow and Stalingrad are to be opened.

NEW DEVELOPMENTS IN RIVER TUGBOATS -- Rechnoy Transport, No 24, 24 Mar 49

Workers of a review fleet are remodeling and improving the 400-horsepower turbusta surned out in 1947 and 1948 by the "Leninskaya Kuznitsa" Shippuilding Plant of Kiev. Experiments have shown that the most efficient rate of operation is achieved by 42-percent inflation (napolneniye) of high-compression cylinders rather than my t 50-percent inflation formerly used. As a result, the specific pulling forc. (udel'noye tyagovoye usiliye) is increased 16.1 percent. The enlarging of the paddle wheel blades (plitsa) from 500 millimeters to 730 millimeters raised the specific pull (udel'naya tyaga) from 12.37 kilograms per horsepower to 14.2 kilograms per horsepower.

As an experiment, four types of wheel hubs (kolesnaya vtulka) are being tried out on various units of the fleet. Results so far have indicated that bronze hubs are much inferior to those made of cast iron or TsAM-10-5 zinc alloy and to floating steel ones.

NEW SHIPS FOR RSFSR RIVER FLEET -- Krasnyy Flot, No 69, 24 Mar 49

Thirty new tugboats with metal hulls will be put into operation in April by the RSFSR river fleet. The introduction of 150-horsepower ships on the larger rivers is also scheduled.

KAZATH SER TO EXPAND TRANSPORT FLEET -- Kazakhstanskaya Pravda, No 36, 22 Feb 49

At present there are three steamship lines in Kazakh SSR, the Verkhne-Irtyshskoye, the Balkhash-Illyskoye, and the Ural Lines. There is also the Azov Mine. The Balkhash-Illyskoye and Ural Lines have been put under the Republic Administration for Developement for transport of the Pobol, Lehim, Syr-Dar'ya, and other rivers. Construction of cutters and shallow-draft barges has begun.

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